

DOMENICO CIMINI



DATI ANAGRAFICI

Nome e cognome: Domenico Cimini
Data e luogo di nascita: 02/10/1973, Teramo (TE), Italia
Cittadinanza: Italiana
Stato di famiglia: Celibe, 2 figli

RECAPITI

Ufficio: CNR-IMAA
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POSIZIONE

- 2020/01/01-presente, **Dirigente di Ricerca CNR**, I livello professionale, II fascia.

ABILITAZIONI NAZIONALI

- 2017-2026, **Professore Prima Fascia**, Settore concorsuale GEOFISICA (04/A4)
- 2017-2026, **Professore Prima Fascia**, Settore concorsuale ASTRONOMIA, ASTROFISICA, FISICA DELLA TERRA E DEI PIANETI (02/C1).
- 2014-2020, **Professore Seconda Fascia**, Settore concorsuale GEOFISICA (04/A4)
- 2013-2019, **Professore Seconda Fascia**, Settore concorsuale ASTRONOMIA, ASTROFISICA, FISICA DELLA TERRA E DEI PIANETI (02/C1).

EDUCAZIONE

- 2006-2009, **Specializzazione in Fisica Sanitaria**, Università degli Studi de L'Aquila, Italia.
Tesi: Dosimetria e modellistica su treatment planning system con fasci di elettroni in radioterapia oncologica.
Relatori: Prof. Vincenzo Tombolini (Università degli Studi dell'Aquila e Presidio Ospedaliero Regionale "San Salvatore" dell'Aquila)
Data conseguimento: 19/11/2009 – *Votazione:* 70/70 e lode
- 1999-2002, **Dottorato in Fisica**, Università degli Studi de L'Aquila, Italia.
Tesi: Atmospheric and Oceanic Measurements by Infrared and Microwave radiometers: calibration techniques and retrieval accuracy.
Relatori: Dr. Ed R. Westwater (National Oceanic and Atmospheric Administration (NOAA), USA), Prof. Guido Visconti (Università dell'Aquila).
Data conseguimento: 04/02/2002
- 2000, **Esperto Tecnico per Sensori per l'Ambiente**, L'Aquila, Italia.
Docenti: Prof. Guido Visconti, Prof. Piero Ciotti, Dr. Frank Marzano, Dr. Rossella Ferretti, Dr. Vincenzo Rizi (Dipartimenti di Fisica ed Ingegneria Elettrica dell'Università de L'Aquila).
Selezionato come miglior studente.
Data conseguimento: 26/01/2000 – *Votazione:* 52/60
- 1991-1998, **Laurea in Fisica**, Università de L'Aquila, Italia.
Tesi: Telerilevamento da terra del profilo atmosferico di temperatura e di umidità tramite misure da radiometro a microonde a cinque canali.
Relatori: Prof. Guido Visconti, Dr. Frank Marzano (Dipartimenti di Fisica ed Ingegneria elettrica dell'Università de L'Aquila).
Data conseguimento: 28/10/1998 – *Votazione:* 110/110 e lode
- 1987-1991, **Maturità scientifica**, Liceo Scientifico A. Einstein, Teramo, Italia.
Data conseguimento: 01/07/1991 – *Votazione:* 54/60

PARTECIPAZIONI A CORSI E SCUOLE

- 2008, 22-26 Settembre, **International Summer School on Atmospheric and Oceanic Sciences**, L'Aquila, Italia.
Docenti: William Brune (Pennsylvania State University, USA), et al.
- 2007, 3-7 Settembre, **International Summer School on Atmospheric and Oceanic Sciences**, L'Aquila, Italia.
Docenti: Thomas Ackerman (University of Washington, USA), et al.
- 2004, Settembre/Dicembre, **Writing in Physics**, University of Colorado at Boulder, USA.
Docenti: Patricia Weis-Taylor (University of Colorado, USA)
- 2003, 23-31 Maggio, **Remote Sensing Seminar**, Maratea, Italia.
Docenti: Paul Menzel, Henk Revercomb, Paolo Antonelli (SSEC, University of Wisconsin, USA)
- 2002, 25-30 Agosto, **International Summer School on Atmospheric and Oceanic Sciences**, L'Aquila, Italia.
Docenti: Micheal King (NASA, USA) et al.
- 2002, 25 Febbraio-1 Marzo, **I Satelliti Meteorologici**, ARPA-SMR, Bologna, Italia.

ESPERIENZE PROFESSIONALI

- 2019-2020, **Primo Ricercatore**, tempo indeterminato, presso l'Istituto di Metodologie per l'Analisi Ambientale, Consiglio Nazionale delle Ricerche, Tito scalo (PZ), Italia.
- 2010-2019, **Ricercatore**, tempo indeterminato, presso l'Istituto di Metodologie per l'Analisi Ambientale, Consiglio Nazionale delle Ricerche, Tito scalo (PZ), Italia.
- 2007-2010, **Ricercatore**, tempo determinato, presso il Centro di Eccellenza per l'integrazione del Telerilevamento e Modellistica per la Previsione di eventi meteorologici Severi (CETEMPS), Dipartimento di Fisica, Università de L'Aquila, Italia.
- 2007 (Feb-Apr): **Assistant Professor**, Center for Environmental Technology (CET), Department of Electrical and Computer Engineering, University of Colorado, CO, USA.
- 2005-2006, **Ricercatore**, tempo determinato, presso l'Istituto di Metodologie per l'Analisi Ambientale, Consiglio Nazionale delle Ricerche, Tito scalo (PZ), Italia
- 2004-2005, **Research Associate** (Visiting Fellow) presso il Cooperative Institute for Research in Environmental Sciences, University of Colorado, CO, USA
- 2002-2004: **Collaboratore scientifico** presso il Centro di Eccellenza per l'integrazione del Telerilevamento e Modellistica per la Previsione di eventi meteorologici Severi (CETEMPS), Università de L'Aquila, Italia.

INCARICHI

- 2019-presente, **Vice-chair** COST Action 18235 PROBE (PROfiling the atmospheric Boundary layer at European scale)
- 2019-presente, **Co-chair** of Ground-based Task Team for Global Climate Observing System (GCOS) Reference Upper Air Network (GRUAN)
- 2019-presente, **Chair** del task team on Microwave Radiometry Business case, EUMETNET E-PROFILE.
- 2009-presente, **Co-chair** della rete internazionale di radiometri a microonde da terra MWRnet.
- 2013-2017, **Co-chair** del Working Group Microwave Radiometers di EU COST TOPROF
- 2007-presente, Incarico di **Responsabile** della linea di ricerca Telerilevamento passivo del Centro di Eccellenza CETEMPS dell'Università de L'Aquila.

ESPERIENZE EDITORIALI

- 2020-presente, **Membro del Comitato Editoriale** per la rivista *Bulletin of Atmospheric Science and Technology* edita da *Springer-Nature*.
- 2018-presente, **Editore Associato** per la rivista *Remote Sensing* di MDPI (*Multidisciplinary Digital Publishing Institute*).
- 2013-presente, **Editore Associato** per la rivista *Atmospheric Measurement Technique* dell'*European Geosciences Union*.
- 2012-2014, **Editore Ospite** per l'edizione speciale "Tropospheric profiling" sulla rivista *Atmospheric Measurement Technique* dell'*European Geosciences Union*.
- 2012-presente, **Valutatore** di proposte di finanziamento a progetto per *Swiss National Science Foundation (SNSF)*, *German Science Foundation (DFG)*, *Ministero per lo Sviluppo Economico (bando Fondo Crescita Sostenibile)*.

- 2001-presente, **Revisore** per riviste internazionali: *Journal of Geophysical Research*, *Radio Science (American Geophysical Union)*, *Atmospheric Sciences (Elsevier)*, *Transaction on Geoscience and Remote Sensing*, *Geoscience and Remote Sensing Letters (Institute of Electrical and Electronics Engineers)*, *Journal of Atmospheric and Oceanic Technology*, *Journal of Applied Meteorology and Climatology*, *AMS Meteorological Monograph (American Meteorological Society)*, *Annales Geophysicae*, *Atmospheric Measurement Technique (European Geosciences Union)*.

AFFILIAZIONI INTERNAZIONALI

- 2007-presente: **Membro a vita** dell'**Unione Geofisica Europea** (European Geophysical Union, EGU, Member 2007-2011; Complementary Member 2012-2014; Regular Member 2016; Life Member 2017-)
- 2006-presente: **Membro Affiliato** del **Center for Environmental Technology** (CET), Department of Electrical and Computer Engineering, University of Colorado, Boulder, CO, USA
- 1999-2005: **National Oceanic and Atmospheric Administration** (NOAA) Environmental Technology Laboratory (ETL), Boulder, CO, USA

ESPERIENZE DI DIDATTICA

- 2019 - presente, **Docente** di *Atmospheric Sounding*, Laurea Magistrale Atmospheric Science and Technology (LMAST), Università dell'Aquila, Italia.
- 2015 - presente, **Docente** di *Remote Sensing*, Master in Telecommunication Engineering, Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica, Università dell'Aquila, Italia.
- 2013, Novembre, **Docente** di *Tecniche per il telerilevamento dell'Atmosfera* nel corso di *Esperto di tecnologie informatiche per il monitoraggio ambientale*, Fondazione Archè, Potenza, Italia.
- 2013, 23-26 Settembre, **Invited lecturer** alla prima scuola estiva del network Europeo *Initial Training for atmospheric Remote Sensing* (ITARS) intitolata "Aerosol Remote Sensing, Processes & Applications".
- 2011, 18-24 Settembre, **Tutor** al *Remote Sensing Seminar*, Brienza, Italia. *Docenti*: Paul Menzel (University of Wisconsin, USA).
- 2011, Ottobre, **Docente** di *Tecniche per il telerilevamento dell'Atmosfera* nel corso di *Esperto di tecnologie informatiche per il monitoraggio ambientale*, Fondazione Archè, Potenza, Italia.
- 2008-2012, **Docente** del corso *Telerilevamento dell'Atmosfera*, Facoltà di Scienze MM.FF.NN., Corsi di Laurea in Fisica e Scienze e Tecnologie Ambientali, Università degli Studi dell'Aquila, Italia.
- 2006-presente, **Relatore esterno** di Tesi di Lauree specialistiche (3) e di Dottorato (1).
- 2006, Ottobre, **Docente** di *Tecniche per il telerilevamento dell'Atmosfera* nel corso di *Metodi e strumenti ICT per le osservazioni della Terra ed il monitoraggio ambientale*, Fondazione Archè, Potenza, Italia.
- 2006, Giugno, **Tutor** al *Remote Sensing Seminar*, Ostuni, Italia. *Docenti*: Paul Menzel, Paolo Antonelli (University of Wisconsin, USA).
- 2004, **Docente** di *Introduzione al Telerilevamento da Satellite* nel primo corso di *Perfezionamento in Ingegneria della Prevenzione delle Emergenze*, Facoltà di Ingegneria, Università degli Studi de L'Aquila, L'Aquila, Italia.
- 2004, **Docente** di *Tecniche satellitari per il sounding dell'Atmosfera terrestre* nel corso di *Esperto in idrometeorologia e in metodi e tecniche per le osservazioni della Terra*, Consorzio per lo Sviluppo dei Distretti Industriali per le Osservazioni della Terra (COSOT), Potenza, Italia.
- 2003, **Docente** di *Telerilevamento passivo dell'Atmosfera da terra e da satellite* nel corso *Gestione rischi naturali e protezione civile*, Consorzio Didattico per gli Ecosistemi Montani e Marginali (CODEMM), L'Aquila, Italia.
- 2002, **Docente** di *Telerilevamento a microonde* nel corso *Telerilevamento da terra per l'individuazione delle condizioni di rischio al volo*, Ente Nazionale per l'Assistenza al Volo (ENAV), L'Aquila, Italia.
- 2002-2005, **Assistente** al corso *Telerilevamento dell'Atmosfera*, Facoltà di Scienze MM.FF.NN., Dipartimento di Scienze Ambientali, Università degli Studi de L'Aquila, Italia.

PARTECIPAZIONE A PROGETTI

- 2019-2023: Vice-chair per l'azione **EU COST Profiling the Boundary layer at European scale (PROBE)**.
- 2019-2021: Project Manager per il progetto **EUMETSAT ComboCloud** (18 mesi)
- 2019-2021: Rappresentante CNR e responsabile di WP per il progetto dell'**Agenzia Spaziale Europea WRad**
- 2019-2019: Principale proponente e investigatore per il progetto **EUMETSAT APPLIES** (6 mesi)
- 2015-2017: Leader del Task 2.1.2 per il progetto EU **Horizon 2020 GAIA-CLIM**

- 2013-2017: Delegato Nazionale e Grant Holder per l'azione **EU COST** *Towards operational ground based profiling with ceilometers, doppler lidars and microwave radiometers for improving weather forecasts (TOPPROF)*
- 2012-2016: Persona chiave del progetto **EU FP7** *A European volcanological supersite in Iceland: a monitoring system and network for the future (FUTUREVOLC)*.
- 2012-2014: Responsabile WP del progetto **EU IPA** *ADRIatic integrated RADar-based and web-oriented information processing system NETwork to support hydro-meteorological monitoring and civil protection decision (ADRIARadNet)*.
- 2011-2015: Responsabile WP del progetto *Uso sinergico dei prodotti PRISMA con simulazioni Meteo-chimiche ad Elevata risoluzione Spaziale e loro validazione a terra e da satellite (PRIMES)*, finanziato dall'Agenzia Spaziale Italiana (ASI).
- 2008-2012: Delegato Nazionale e Grant Holder per l'azione **EU COST** *European Ground-Based Observations of Essential Variables for Climate and Operational Meteorology (EG-CLIMET)*.
- 2008-2009: Responsabile WP del progetto *Mitigation of Electromagnetic Transmission errors induced by Atmospheric Water Vapour Effects (METAWAVE)*, finanziato dalla European Space Agency (ESA).
- 2008: Responsabile WP del progetto *Evoluzione Ricevitore Radio Occultation Sounding of the Atmosphere (ROSA2G)*, finanziato dalla Agenzia Spaziale Italiana (ASI).
- 2008: Responsabile WP del progetto *Micro-satellite FLOWer Constellation of Milliwave RADiometers for Meteorology and Climate applications (FLORAD)*, finanziato dalla Agenzia Spaziale Italiana (ASI).
- 2002-2004: Co-Principal Investigator del progetto *Microwave and Millimeter-Wave Radiometric Studies of Temperature, Water Vapor, and Clouds*, finanziato dal United States Department of Energy tramite Atmospheric Radiation Measurement (ARM) Program (PI: Dr. E. R. Westwater, NOAA/ETL).

RICONOSCIMENTI E PREMI

- 2019, *6th Hans Liebe Lecture*, U.S. National Committee (USNC) for the Union of Radio Scientists Internationale (URSI), National Radio Science Meeting, 9-12 January 2019, Boulder, CO, USA. <https://www.usnc-ursi-archive.org/liebe.html>
- 2008, *Fondazione Ugo Bordoni Award* in memoria del Prof. Giovanni D'Auria per *Best Paper Concerning Atmospheric Topics* al 10th Specialist on Microwave Radiometry and Remote Sensing meeting (Microrad) 2008.
- 2008, *Best Oral Award* (in qualità di co-autore) per "InSar, GPS data and high resolution simulations for studying the water vapor distribution in the urban area of Rome: A case study" di Pichelli E., R. Ferretti, D. Perissin, P. Basili, N. Pierdicca, D. Cimini, M. Montopoli and F.S. Marzano, 10th EGU-Plinius Conference on Mediterranean Storms, Cipro, Settembre 2008.
- 2004, Visiting Fellowship presso il Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, CO, USA
- 2001, Miglior Studente alla scuola regionale per *Esperto Tecnico per Sensori per l'Ambiente*.
- 1998, *Lauream Magna Cum Laude*, Corso di Laurea in Fisica.

INTERESSI DI RICERCA

- Telerilevamento della Terra e dell'Atmosfera
- Osservazioni da terra e da satellite
- Modelli di trasferimento radiativo a microonde ed infrarosso
- Bilancio energetico e clima
- Campagne di misura ed esperimenti

LINGUE

- Italiano (madre lingua)
- Inglese (C1/C2 parlato e scritto)
- Spagnolo (principiante)

ORGANIZZAZIONE EVENTI SCIENTIFICI

- 2019, Honorary Chair, *11th International Symposium on Tropospheric Profiling*, 20-24 May, Toulouse, France
- 2018-present, Co-convener Session UP15 "Atmospheric measurements: New instruments, experiments, networks and long-term measurements using in-situ and remote sensing techniques", **European Meteorological Society General Assembly**.

- 2017, Co-convener Session OSA1.12 Ground-based profiling networks for improving weather forecasts, **European Meteorological Society General Assembly**, 3-7 Settembre, Dublin, Ireland.
- 2017, Honorary Chair, **10th International Symposium on Tropospheric Profiling**, May 30-Jun 2, Fort Collins, USA
- 2016-2017, Co-convener Session AS1.7/GI2.10 Atmospheric applications in microwave radiometry, **European Geophysical Union General Assembly**, Wien, Austria.
- 2012, Chair, **9th International Symposium on Tropospheric Profiling**, 3-7 Settembre, L'Aquila, Italy
- 2008, Staff, **International Summer School on Atmospheric and Oceanic Sciences**, 22-26 Set., L'Aquila, Italy
- 2007, Chair, **International Summer School on Atmospheric and Oceanic Sciences**, 3-7 Set., L'Aquila, Italy
- 2007, Staff, **Cambiamenti Climatici ed Aree Protette**, 27 Luglio, L'Aquila, Italy
- 2006, Staff, **15th International TOVS Study Conference**, 4-10 Ottobre, Maratea, Italy

ESPERIENZE COMPUTAZIONALI

- *Programmazione*: Fortran, IDL, Matlab.
- *Sistemi operativi*: Unix, Linux, Windows, VAX-VMS.

SELEZIONE DI PRESENTAZIONI ORALI INTERNAZIONALI

- 2020, Dicembre, *Profiling the atmospheric boundary layer at European scale: Prospects and challenges*, University of Vienna, Vienna, Austria (**invited seminar**)
- 2019, Ottobre, *Ground-based microwave radiometry - a handy tool for profiling the atmospheric boundary layer thermodynamics*, Royal Meteorological Institute of Belgium, Brussels, Belgium (**invited seminar**)
- 2019, Gennaio, *Fostering ground-based microwave radiometry: from uncertainty to applications*, URSI-NCRS, Boulder CO, USA (**invited lecture**)
- 2018, Dicembre, *Evaluation of the Models and Uncertainty Quantification*, EUMETSAT, Germany, (**su invito**)
- 2016, Novembre, *Precipitation estimation from satellite*, AdriaRadNet Training School, Tirana, Albania, (**su invito**)
- 2014, Settembre, *Microwave radiometry for cloud liquid water path retrieval*, ITARS Summer School, Jülich, Germany (**su invito**)
- 2013, Settembre, *An introduction to atmospheric remote sensing with MicroWave radiometry*, ITARS Summer School, Bucarest, Romania (**su invito**)
- 2012, Aprile, *Application of ground-based microwave radiometers to operational meteorology: from IDVAR to networking*, Institute of Applied Physics, University of Bern, CH (**su invito**).
- 2011, Aprile, *Passive thermodynamic profiling by ground-based microwave radiometers*, Thermodynamic Profiling Technology Workshop, Boulder, CO, USA, (**su invito**).
- 2010, Novembre, *Introduction to Atmospheric Profiling with IDVAR*, Thermodynamic and Liquid Profiling Workshop, Beijing, China (**su invito**).
- 2006, Marzo, *Ground-based millimeter- and submillimeter-wave observations of the Arctic atmosphere*, Specialist Meeting on Microwave Remote Sensing, San Juan, Puerto Rico (**su invito**)
- 2004, Aprile, *Recent developments in ground-based remote sensing of water vapor*, NASA Goddard Space Flight Center, Greenbelt, Maryland, USA (**su invito**)
- 2004, Febbraio, *Comparison of microwave absorption models for climatology in Payerne*, TUC Experiment expert meeting, Payerne, Switzerland (**su invito**)

ALTRI INTERESSI

- Prima di tutto: i due miei figli
- Ecologia e sviluppo sostenibile
- Viaggi
- Libri e fumetti d'autore
- Sport vari (pallavolo, tennis, beach-volley/tennis, snowboard, calcetto, ...)

BIBLIOMETRIA

Publons: <https://publons.com/researcher/1542641/domenico-cimini/>

H-index=24; 133 documents; 1610 total number of citations.

Scopus: <http://www.scopus.com/authid/detail.url?authorId=7003995144&origin=resultslist>

H-index=23; 130 documents; 1743 total number of citations.

Google Scholar: <http://scholar.google.it/citations?user=RhP7yXsAAAAJ>

H-index=29; 227 documents; 2728 total number of citations.

PUBBLICAZIONI SU RIVISTE INTERNAZIONALI

- 1) Rüfenacht, R., Haefele, A., Pospichal, B., Cimini, D., Bircher-Adrot, S., Turp, M., Sugier, J., EUMETNET opens to microwave radiometers for operational thermodynamical profiling in Europe. *Bull. of Atmos. Sci. & Technol.* 2, 4, <https://doi.org/10.1007/s42865-021-00033-w>, 2021.
- 2) Cadeddu M. P., **D. Cimini**, V. Ghate, D. Lubin, A. M. Vogelmann, and I. Silber, Examination of Humidity and Ice Supersaturation Profiles Over West Antarctica Using Ground-Based G-Band Radiometer Retrievals, *IEEE TGRS*, <https://doi.org/10.1109/TGRS.2021.3077088>, 2021.
- 3) Alyosef, A., **Cimini, D.**, Luini, L., Riva, C., Marzano, F. S., Biscarini, M., Milani, L., Martellucci, A., Gentile, S., Nilo, S. T., Di Paola, F., Alkhateeb, A., and Romano, F.: Improving atmospheric path-attenuation estimates for radio propagation applications by microwave radiometric profiling, *Atmos. Meas. Tech.*, 14, 4, 2737-2748, <https://doi.org/10.5194/amt-14-2737-2021>, 2021.
- 4) **Cimini D.**, F. S. Marzano, M. Biscarini, R. Martinez Gil, P. Schlüssel, F. Concaro, M. Marchetti, M. Pasian, F. Romano, Applicability of the Langley Method for Non-Geostationary In-Orbit Satellite Effective Isotropic Radiated Power Estimation, *IEEE Trans. Ant. Prop.*, <https://doi.org/10.1109/TAP.2020.3048479>, 2021.
- 5) Marzano F. S., M. Iacobelli, M. Orlandi and **D. Cimini**, Coastal Water Remote Sensing From Sentinel-2 Satellite Data Using Physical, Statistical, and Neural Network Retrieval Approach, *IEEE Trans. Geosci. Rem. Sens.*, 59, 2, 915-928, doi: 10.1109/TGRS.2020.2980941, Feb. 2021.
- 6) Koshelev M.A., I.N. Vilkov, D.S. Makarov, M.Yu. Tretyakov, B. Vispoel, R.R. Gamache, D. Cimini, F. Romano, P.W. Rosenkranz, Water vapor line profile at 183-GHz: temperature dependence of broadening, shifting, and speed-dependent shape parameters, *J. Quant. Spectr. Radiat. Trans.*, 262, 107472, <https://doi.org/10.1016/j.jqsrt.2020.107472>, 2021.
- 7) Nilo S. T., **D. Cimini**, F. Di Paola, D. Gallucci, S. Gentile, E. Gerdali, S. Larosa, E. Ricciardelli, E. Ripepi, M. Viggiano, F. Romano, Fog forecast using WRF model output for solar energy applications, *Energies*, 13, 6140, 2020.
- 8) Montopoli M., **D. Cimini**, E. Picciotti, S. Di Fabio, V. Capozzi, K. De Sanctis, and F. S Marzano, Investigating ground-based radar and spaceborne infrared radiometer synergy for lightning areal prediction in complex orography, *Bulletin of Atmospheric Science and Technology*, <https://doi.org/10.1007/s42865-020-00013-6>, vol. 1, pp. 231-256, 2020.
- 9) Martinet, P., **Cimini, D.**, Burnet, F., Ménétrier, B., Michel, Y., and Unger, V.: Improvement of numerical weather prediction model analysis during fog conditions through the assimilation of ground-based microwave radiometer observations: a 1D-Var study, *Atmos. Meas. Tech.*, <https://doi.org/10.5194/amt-2020-166>, 2020.
- 10) Gallucci, D.; De Natale, M.P.; **Cimini, D.**; Di Paola, F.; Gentile, S.; Gerdali, E.; Larosa, S.; Nilo, S.T.; Ricciardelli, E.; Viggiano, M.; Romano, F. Convective Initiation Proxies for Nowcasting Precipitation Severity Using the MSG-SEVIRI Rapid Scan. *Remote Sens.* 12, 2562, <https://www.mdpi.com/2072-4292/12/16/2562>, 2020.
- 11) Di Girolamo, P., Di Sabatino, S., Archer, C.L., Buontempo, C., Bordoni, S., Budillon, G., Buzzi, A., **Cimini, D.**, Curci, G., Cuxart, J., Davolio, S., Ferretti, R., Gerosa, G., Marzano, F., Miglietta, M. M., Paccagnella, T., Petitta, M., Pilla, F., Richard, E., Rotunno, R., Serafin, S., Serio, C., Troccoli, A., Zardi, D., Introducing the Bulletin of Atmospheric Science and Technology. *Bull. of Atmos. Sci. & Technol.* (2020). <https://doi.org/10.1007/s42865-020-00006-5>, 2020.
- 12) Gentile, S.; Di Paola, F.; **Cimini, D.**; Gallucci, D.; Gerdali, E.; Larosa, S.; Nilo, S.T.; Ricciardelli, E.; Ripepi, E.; Viggiano, M.; Romano, F. 3D-VAR Data Assimilation of SEVIRI Radiances for the Prediction of Solar Irradiance in Italy Using WRF Solar Mesoscale Model—Preliminary Results. *Remote Sens.*, 12, 920, <https://doi.org/10.3390/rs12060920>, 2020.

- 13) **Cimini D.**, M. Haeffelin, S. Kotthaus, U. Löhnert, P. Martinet, E. O'Connor, C. Walden, M. Collaud Coen, J. Preissler, Towards the profiling of the atmospheric boundary layer at European scale – Introducing the COST Action PROBE, *Bulletin of Atmospheric Science and Technology*, doi: 10.1007/s42865-020-00003-8, 2020.
- 14) Rosenkranz P. W. and **D. Cimini**, Speed Dependence of 22- and 118-GHz Line Shapes for Tropospheric Remote Sensing, *IEEE Trans. Geosci. Rem. Sens.*, 57, 12, 9702-9708, doi: 10.1109/TGRS.2019.2928570, Dec. 2019.
- 15) Mattioli, V., C. Accadia, C. Prigent, S. Crewell, A. Geer, P. Eriksson, S. Fox, J.R. Pardo, E.J. Mlawer, M. Cadeddu, M. Bremer, C. De Breuck, A. Smette, **D. Cimini**, E. Turner, M. Mech, F.S. Marzano, P. Brunel, J. Vidot, R. Bennartz, T. Wehr, S. Di Michele, and V. John, 0: ATMOSPHERIC GAS ABSORPTION KNOWLEDGE IN THE SUB-MILLIMETER: Modeling, field measurements, and uncertainty quantification. *Bull. Amer. Meteor. Soc.*, 0, <https://doi.org/10.1175/BAMS-D-19-0074.1>, 2019.
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19 Maggio 2021

Domenico Cimini

